

## **ECHO CANCELLATION FOR A PACKET VOICE SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

**[00146]** An apparatus and methods supporting improved echo cancellation in a packet network is disclosed. An embodiment of the present invention may permit a split-band communication system operating in a narrowband mode to provide improved suppression of hybrid echo generated by the conversion of signals from a packet network to a two-wire analog circuit. By detecting the presence of signal characteristics outside of the relatively narrower bandwidth to be communicated, such an embodiment may more accurately detect the occurrence of speech received from a party on a relatively wider bandwidth communication circuit. The accurate detection of speech permits more effective suppression of any hybrid echo remaining after echo cancellation. An embodiment of the present invention may also have application in other systems that detect signals received via a path having a bandwidth greater than that to be transmitted.